LISTING OF CLAIMS

1. (currently amended) A cavitation suppressor for connection with an inlet of a coolant pump to increase inlet pressure for controlling cavitation, the suppressor comprising:

a converging inlet nozzle defining an interior passage having reducing crosssectional areas from an inlet end to an outlet end;

a <u>cylindrical</u> diffuser pipe extending from the outlet end of the nozzle for connection with a pump inlet, the diffuser pipe and defining a <u>constant diameter</u> passage having a cross-sectional area larger than that of the nozzle outlet end; and

a head pipe connected to the diffuser pipe adjacent the outlet end of the nozzle and defining a head pipe passage, opening to the constant diameter diffuser pipe passage at the nozzle outlet end and adapted for connection with a source of coolant pressure head.

- 2. (original) A cavitation suppressor as in claim 1 wherein the nozzle, diffuser pipe and head pipe are individual components joined into an assembly.
- 3. (currently amended) A cavitation suppressor as in claim 1 wherein the nozzle is formed with an integral flange for connection of the aspirator suppressor with the coolant circulation system.
- 4. (original) A cavitation suppressor as in claim 3 wherein the head pipe includes a flange for connection of the suppressor with a coolant tank.
- 5. (original) A cavitation suppressor as in claim 1 wherein the nozzle passage is conical.

- 6. (currently amended) A cavitation suppressor as in claim 1 wherein the cross-sectional area of the diffuser pipe passage is in the range of from about 2 to 3.5 times the cross-sectional area of the nozzle outlet end.
- 7. (currently amendedl) A cavitation suppressor as in claim 6 wherein the cross-sectional area of the diffuser pipe passage is about 2.75 in the range of from 2.7 to 2.9 times the cross-sectional area of the nozzle outlet end.
 - 8. (original) An engine cooling system comprising:
 an engine having internal cooling passages;
 a centrifugal coolant pump connected to deliver coolant to the cooling passages;
- at least one heat exchanger connected in series with the cooling passages and an inlet of the pump
 - a coolant tank mounted above the pump inlet; and
- a cavitation suppressor including a diffuser connected with the pump inlet, a converging nozzle having an outlet connected to a larger inlet end of the diffuser to accelerate coolant flow entering the diffuser, and a head pipe connecting a lower portion of the coolant tank with the diffuser adjacent the nozzle to apply a static pressure head of the coolant in the tank to the accelerated coolant flow entering the diffuser to establish a static pressure of the entering flow equal to the static pressure head;

whereby slowing of the coolant flow in the larger diffuser converts dynamic head of the accelerated coolant to increased static pressure at the pump inlet, which increases the suppression of cavitation of the coolant in the pump inlet during operation of the system at increased temperature levels.

9. (new) The invention of claim 8 wherein the cavitation suppressor diffuser is a cylindrical pipe defining a constant diameter passage, and the head pipe passage opens to the constant diameter diffuser pipe passage at the nozzle outlet end.